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An Introduction to

**Parko**

ELECTRONICS COMPANY, INC.

1540 South Lyon
Santa Ana, California 92705

(714) 547-0184

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# CURRENT, VOLTAGE, AND FREQUENCY SENSING DEVICES

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# CUSTOMER SPECIFIED

# UNITS

CUSTOMER SPECIFIED
UNITS

# SPECIAL DESIGNS

# TIME DELAY MODULES
# AND
# RELAYS

# TIME DELAY MODULES AND RELAYS

P/N 100027 - TIME DELAY UNIT - (FSN 5945 996 5854 LK) - This solid state time delay module was designed around the CJ Series to Autonetics' Specification IID 455-0126-007. The timing circuit is separated from the output stage, and the unit may be used to drive an electromechanical relay or other common power loads.

P/N 100136 - TIME DELAY MODULE - This solid state time delay module was custom designed to Space Technology Laboratories' Specification PT 2-1018. The unit has provisions for an external timing resistor of 20K to 25K ohms per second, and was designed to control an external silicon-controlled rectifier stage.

P/N 100139 - TIME DELAY MODULE - This solid state time delay module was designed around the CJ series to Space Technology Laboratories' Specification PT2-1019. The unit has provision for an external timing resistor of exactly 20K ohms per second and was designed to drive an electromechanical relay.

P/N 100217 - TIME DELAY UNIT - This solid state time delay module was designed around the CJ series to Autonetics' Specification IID 455-0256-004. The timing circuit is separated from the output stage and can sustain a power interruption of 55 milliseconds without recycling. The unit may be used to drive an electromechanical relay or other common power loads.

P/N 100245 -AJ2812 TIME DELAY RELAY - (FSN 5945 946 0593)- This is the Parko standard AJ Series time delay module.

P/N 100246 - ELECTRONIC TIMER - This solid state time delay module was custom designed for Airesearch. The unit was designed around standard timing circuits with the addition of special transient power protection, input control capabilities, and utilizes a solid state switching output.

## TIME DELAY MODULES AND RELAYS

P/N 100027 - TIME DELAY UNIT - (FSN 5945 998 3854 LK) - This solid state time delay module was designed around the CJ Series to Autonetics' Specification MD4455-0126-007. The timing circuit is separated from the output stage, and the unit may be used to drive an electromechanical relay or other common power

P/N 100136 - TIME DELAY MODULE - This solid state time

tories' Specification PT2-1018. The unit has provisions for an external timing resistor of 20K to 35Kohms per second, and was designed to control an external silicon-controlled rectifier stage.

P/N 100139 - TIME DELAY MODULE - This solid state time delay module was designed around the CJ series to Space Tech-

vision for an external timing resistor of exactly 20K ohms per second and was designed to drive an electromechanical relay.

P/N 100217 - TIME DELAY UNIT - This solid state time delay module was designed around the CJ series to Autonetics' Specification MD 4455-0256-004. The timing circuit is separated from the output stage and can sustain a power interruption of 55 milliseconds without resetting. The unit may be used to drive an electromechanical relay or other common power loads.

- ELECTRONIC TIMER - This solid state time delay was custom designed for Ainsesearch. The unit was

sional transient power protection, input control capabilities,

P/N 100247 - ELECTRONIC TIMER - This solid state electronic module was custom designed for Airesearch. The unit incorporates two standard time delay circuits, special transient power protection, special input control capabilities, and utilizes a solid state switching output.

P/N 100248 - ELECTRONIC TIMER - This solid state time delay module was custom designed for Airesearch. The unit was designed around standard timing circuits with the addition of special transient power protection, input control capabilities, counting stages to obtain the long time delay, and utilizes a solid state switching output.

P/N 100274 - TIME DELAY UNIT, 250 SECOND MODULE - this solid state time delay module was custom designed to Autonetics' Specification IID 455-0256-002. The unit was designed around special time delay circuitry to obtain the long time delay, and was designed to drive an external electromechanical relay.

P/N 100295 - TIME DELAY UNIT - This solid state time delay module was custom designed to Autonetics' Specification IID 455-0406-001 through -012. It was designed around CJ Series circuitry with the addition of transient power protection, power dropout protection, and utilizes a solid state switching output. This unit was subsequently purchased as Parko P/N 100358 against Autonetics' IID 476-0052 for the Mission Sequencer as flight hardware on the Apollo program.

P/N 100312 - TIME DELAY UNIT - This solid state time delay module was custom designed for Autonetics around CJ Series circuitry with the addition of transient power protection, and

P/N 100312 (continued)

utilizes a solid state switching output. This unit was subsequently purchased as Parko P/N 100354 against Autonetics' IID 476-0051 for the P103 Programmer as flight hardware on the Apollo program.

P/N 100316 - TIME DELAY UNIT - This solid state time delay module was custom designed for Autonetics around CJ Series circuitry with the addition of transient power protection and utilizes a solid state switching output. In addition, binary divider stages were added to meet the extended time delay requirements of up to 900 seconds. This unit was subsequently purchased as Parko P/N 100350 against Autonetics' IID 476-0050 for the P103 Programmer as flight hardware on the Apollo program.

P/N 100378 - TIME DELAY MODULE - This solid state time delay module was custom designed to Philco Corporation's Specification 85-165300-01 around Parko's CJ Series circuitry, with the addition of transient power protection and voltage regulation, and drives two DPDT one-sixth crystal can relays.

P/N 100443 - TIME DELAY RELAY - This solid state time delay relay was specifically designed for Douglas Aircraft Company. The unit features an adjustable time delay circuit with close tolerance repeatability and a relay contact output circuit.

P/N 100455 - TIME DELAY UNIT - (FSN 5945 828 1472) - This solid state timing unit was designed around the CJ Series to Autonetics' Specification IID 455-0256-005 featuring miniaturized components in order to package the circuitry in a half-size crystal can enclosure.

P/N 100818 - TIME DELAY UNIT - This solid state time delay module was custom designed for Autonetics around CJ Series circuitry with the addition of transient power protection and utilizes a solid state switching output. In addition, binary divide r stages were added to meet the extended time delay requirements of up to 900 seconds. This unit was subsequently purchased as Parko P/N 100880 against Autonetics' IID 479-0050 for the P108 Programmer as flight hardware on the Apollo programs.

P/N 100978 - TIME DELAY MODULE - This solid state time delay module was custom designed to Philco Corporation's Specification 85-185800-01 around Parko's CJ Series circuitry, with the addition of transient power protection and voltage regulation, and drives two DPDT one-sixth crystal can relays.

P/N 100413 - TIME DELAY RELAY - This solid state time delay relay was specifically designed for Douglas Aircraft Company. The unit features an adjustable time delay circuit with close

P/N 100455 - TIME DELAY UNIT - (FSN 5945 828 1472) - This solid state timing unit was designed around the CJ Series to Specification IID 485-0256-005 featuring miniaturized package the circuitry in a half-size

P/N 100479 - 24 VAC TIME DELAY - This solid state AC time delay relay was custom designed for Challenger Lock and Hardware as a direct replacement for an electromechanical time delay relay in automatic electrical locks.

P/N 100489 - TIME DELAY UNIT - This solid state time delay module was designed around Parko's CJ Series circuitry and packaged in a half-size crystal can to Autonetics' Specification IID 455-0126-013.

P/N 100583 - TIME DELAY UNIT - This solid state timing module was custom designed for Autonetics for use on the Minuteman III program. It develops an 8-second output pulse and is controlled by integrated circuit logic.

P/N 100594 - TIME DELAY UNIT - This solid state timing module was custom designed to Cubic Corporation's Specification 106262-1. Input power is 26 VAC, 400 Hz, with a solid state AC output switching 250 mA @ 26 VAC.

P/N 100627 - TIME DELAY UNIT - This solid state time delay module utilizes a circuit developed by Parko for the Apollo program and is packaged to conform to Autonetics' IID 455-0126-015, -016, and -017.

P/N 100631 - TIME DELAY UNIT - This solid state time delay module utilizes a circuit developed by Parko for the Apollo program and is packaged to conform to Autonetics' Specification IID 455-0126-018.

P/N 100651 - TIME DELAY MODULE - This solid state time delay module was designed around circuitry developed by Parko for the Apollo Program to meet a specific requirement of North American Rockwell - Space Division.

## CURRENT, VOLTAGE, AND FREQUENCY SENSING DEVICES

P/N 100210 - FREQUENCY DETECTOR - This solid state frequency detecting relay was custom designed for Lear Siegler, Inc./Electronic Instrumentation Division. It incorporates eight frequency detectors with solid state control circuits, two relay amplifiers, and two electromechanical relay output stages to indicate low, center, or high conditions for four separate frequencies. Solid state switching was utilized to select the specific frequency to be monitored.

P/N 100214 - VOLTAGE DETECTOR - This solid state voltage detecting relay was custom designed for Lear Siegler, Inc./ Electronic Instrumentation Division. This unit incorporates two precision voltage detecting circuits, two relay amplifiers, and two electromechanical relays to indicate low, center, and high conditions for a 5 $\pm$ .25-volt input with an accuracy of 2%.

P/N 100395 - LEVEL DETECTOR - This solid state level detector was custom designed for Douglas Aircraft Company as a two-input adjustable voltage detector with relay contact output circuitry.

P/N 100399 - OVERVOLTAGE MONITOR (LATCHING) - This solid state overvoltage monitor was custom designed for American Electronics, Inc. The unit was specifically designed for commercial applications, featuring a solid state encapsulated voltage detecting circuit and a DPDT 10-amp open-frame relay and an adjustment potentiometer. The relay and potentiometer are accessible for field repair.

P/N 100587 - ISOLATED VOLTAGE MONITOR - This solid state isolated voltage monitor was designed to meet a specific requirement of North American Rockwell - Space Division. The unit

P/N 100587 (continued)
features an adjustable trip point from 50 millivolts to 3 volts peak, AC or DC, with full isolation between the input circuit and output circuit.

P/N 100607 - FREQUENCY MONITOR - This solid state frequency monitor was designed to meet a specific requirement of North American Rockwell - Space Division. The unit features input power of 120 VAC, 340 to 460 Hz, with adjustable low trip point of 380 Hz and adjustable high trip point of 420 Hz.

P/N 100643 - VOLTAGE SENSOR - This solid state voltage sensitive relay was designed to meet a specific requirement of North American Rockwell - Space Division. The unit operates from 6 volts nominal and features a magnetic latched trip point of either 4.6 or 5.1 VDC. The unit is reset with 26 VDC.

P/N 10013 - VOLTAGE SENSOR - This solid state voltage sensitive relay was designed to meet a specific requirement of North American Rockwell - Space Division. The unit operates from 6 volts nominal and features a magnetic latched trip point

# CUSTOMER SPECIFIED UNITS

P/N 100101 - ELECTRONIC TIMER - (FSN 5945 970 3823) - This solid state time delay module was custom designed to Airesearch Specification 511982-1. The unit was designed as a direct replacement for an electromechanical time delay relay, and has a solid state switching output.

P/N 100102 - ELECTRONIC TIMER - (FSN 5945 066 1450) - This solid state time delay relay was custom designed to Airesearch Specification 511982-2. This unit is similar to the 100101 except that an electromechanical relay output is provided.

P/N 100180 - TIME DELAY RELAY - This solid state time delay relay was custom designed to BuOrd Specification 2263875. The unit is designed around standard time delay circuitry that incorporates special pulse control functions and utilizes an electromechanical relay output.

P/N 100305 - TIME DELAY RELAY - This solid state time delay relay was custom designed to BuOrd Specification 2041382, around standard time delay circuitry, and incorporates special pulse control functions and utilizes an electromechanical relay output.

P/N 100366 - STEPPING RELAY - This solid state stepping relay was custom designed to North American Specification NA5-7882. The unit was designed as a direct replacement for an electromechanical stepping relay and consists of a solid state circuit driving a DPDT 10-amp hermetically sealed relay, giving reduced weight and increased reliability.

P/N 100469 - RADIO NOISE FILTER - This two-section radio noise filter was designed to the requirements of Computer Measurements Corporation's Specification 4096001.

P/N 10010 - ELECTRONIC TIMER - (FSN 5915 970 3823) - This solid state time delay module was custom designed to Airesearch Specification 511982-1. The unit was designed relay, and has a solid state switching output.

P/N 10010A - ELECTRONIC TIMER - (FSN 5915 965 1450) - This solid state time delay relay was custom designed to Airesearch Specification 511982-2. This unit is similar to the 10010 except that an electromechanical relay output is provided.

P/N 10018O - TIME DELAY RELAY - This solid state time The unit is designed around standard time delay circuitry that

P/N 10030S - TIME DELAY RELAY - This solid state time delay relay was custom designed to Buord Specification 2041322, around standard time delay circuitry, and incorporates special pulse control functions and utilizes an electromechanical relay

P/N 10036S - STEPPING RELAY - This solid state stepping relay was custom designed to North American Specification an electromechanical stepping relay and consists of a solid state

P/N 10018S - RADIO NOISE FILTER - This two-section radio

CUSTOMER-SPECIFIED UNITS (continued)

P/N 100500 - GUN CLEARED LOGIC MODULE - This unit was custom designed to meet the requirements of Hughes' Specification 11697806. The unit monitors for a minimum of seven pulses over a period of 500 milliseconds upon removal of the START signal, and trips a magnetic latched relay. The unit is reset by a self-contained pushbutton switch.

P/N 100504 - CIRCUIT BREAKER - This solid state circuit breaker was custom designed to Autonetics' Specification II D 454-0081-001. The unit operates from 115 VAC, 400 Hz, and monitors the current in three phases and neutral. Upon reaching a trip point, a magnetic latched relay causes the 20 ampere contacts to open. The unit is reset with external 26 VDC.

P/N 100647 - DC TO DC CONVERTER - This solid state converter was custom designed to Autonetics' Specification II D 406-0025-001. The unit converts 24 VDC @ 70 mA to 4 VDC @ 200 mA.

(continued)

– GUN CLEARED LOGIC MODULE – This unit was to meet the requirements of Hughes' Specifi- The unit monitors for a minimum of seven pulses over a period of 500 milliseconds upon removal of the reset by a self-contained pushbutton switch.

– CIRCUIT BREAKER – This solid state circuit 454-0081-001. The unit operates from 115 VAC, 400 Hz, and monitors the current in three phases and neutral. Upon reaching , a magnetic latched relay causes the 20 ampere con-

P/N 100647 – DC TO DC CONVERTER – This solid state con- verter was custom designed to Autonetics' Specification 11 D 405-0025-001. The unit converts 24 VDC @ 70 mA to 4 VDC @ 200 mA.

# SPECIAL DESIGNS

P/N 100134 - FLASHER - (FSN 5945 066 7424) - This solid state flasher was custom designed for Nortronics to operate a 28 VDC 40 mA incandescent bulb at 2 Hz with a 50% duty cycle.

P/N 100178 - REPEAT CYCLE TIMER - This solid state repeat cycle timer was custom designed for Lear Siegler, Inc./Electronic Instrumentation Division. The unit generates a 150 millisecond output pulse at a 6-second repetition rate and utilizes an electro-mechanical relay output.

P/N 100179 - MODULATOR PROTECTION MODULE - This solid state module is an example of Parko's capability in the area of solid state systems. The 2.5 cubic inch module was custom designed for Autonetics to directly replace a modulator protection circuit composed of two time delay relays, two voltage sensing relays, six electromechanical relays, one power output relay, and their associated interconnecting wiring. The entire circuit was transistorized with the exception of the power output relay, thereby conserving weight, size, and cost with increased reliability.

P/N 100182 - COINCIDENCE FIRING AMPLIFIER - This solid state module was custom designed for Autonetics to convert a 400 Hz output signal of an airborne fire control computer to a DPDT contact closure at the exact instant the signal passes through the null point. The unit consists of a phase-sensitive coincidence circuit based on a pulse time technique that is insensitive to the rate of change of the input signal and provides a pulsed 28-volt output that overdrives a 6-volt relay to stabilize and minimize the operation time.

P/N 10134 – FLASHER – (PSN 5945 066 7424) – This solid state 40 mA incandescent bulb at 2 Hz with a 50% duty cycle.

P/N 10178 – REPEAT CYCLE TIMER – This solid state repeat cycle timer was custom designed for Lear Siegler, Inc./Electronic [illegible] Instrumentation Division. The unit generates a 150 millisecond [illegible].

state module is an example of Parko's capability in the area of solid state systems. The 2.5 cubic inch module was custom designed for Autonetics to directly replace a modulator protection circuit composed of two time delay relays, two voltage sensing relays, six electromechanical relays, one power output relay, and their associated interconnecting wiring. The entire circuit was transistorized with the exception of the power output relay, thereby conserving weight, size, and cost with increased reliability.

P/N 10182 – COINCIDENCE FIRING AMPLIFIER – This solid state module was custom designed for Autonetics to convert a 400 Hz output signal of an airborne fire control computer to a DPDT contact closure at the exact instant the signal passes through the null point. The unit consists of a phase-sensitive coincidence circuit based on a pulse time technique that is insensitive to the rate of change of the input signal and provides a pulsed 28-volt [illegible] that overdrives a 6-volt relay to stabilize and minimize the [illegible].

P/N 100206 - CDA-10 TRANSMITTER COMMAND MODULE - This solid state transmitter command module is another example of Parko's capability in the area of solid state systems. The module was custom designed for Electronics Development Corporation to monitor and control the application of power to a travelling wave tube transmitter in a reconnaissance drone television system. The module replaces a time delay relay, a current-sensitive relay, and two electromechanical relays with their associated circuitry. The unit monitors the travelling wave tube helix current with a delay of 200 milliseconds, and upon exceeding the maximum helix current for the prescribed period of time, the relay controlling the transmitter power supply drops out for 60 seconds and then re-applies power. In addition, one independent solid state relay circuit is incorporated in the module.

P/N 100236 - TWELVE POSITION SEQUENCER - This solid state sequencer was custom designed for Lear Siegler, Inc./ Electronic Instrumentation Division. The unit was designed specifically to replace an electromechanical stepping switch. This type device can automatically control any number of electromechanical relays sequentially at any rate from 100 milliseconds to 60 seconds per step. A specific advantage is the considerable reduction in power required by the sequencer.

P/N 100266 - NETWORK TIMING UNIT - (FSN 1H 000HD 15042) - This solid state module is another example of Parko Electronics' capability in the area of solid state systems. The module was custom designed for Autonetics to simulate the responses of specific equipment as a part of a trainer. The circuit is composed of seven timing circuits, five latching gates, three output stages, and mode selection logic to provide the sequence of operations as shown on the drawing.

P/N 10236 - TWELVE POSITION SEQUENCER - This solid state sequencer was custom designed for Lear Siegler, Inc./ Electronic Instrumentation Division. The unit was designed specifically to replace an electromechanical stepping switch. This type device can automatically control any number of electromechanical relays sequentially at any rate from 100 milliseconds

This solid state module is another example of Parks Electronics' capability in the area of solid state systems. The module was designed for Automatics to simulate the responses of specific equipment as a part of a trainer. The circuit is com-

The module replaces a time delay relay, a current-sensitive circuitry. The unit monitors the traveling wave tube helix current with a delay of 200 milliseconds, and upon exceeding the maximum helix current for the prescribed period of time, the relay controlling the transmitter power supply drops out for 60 seconds and then re-applies power. In addition, one indepen-

P/N 100302-SOLID STATE DRIVER - This solid state relay was custom designed to North American Specification ME 901-0416-0001. The unit was designed to control two incandescent lamps or other resistive or inductive loads. It has two low level inputs and a solid state output.

P/N 100320 - RELAY DRIVER - This solid state relay driver was designed to Autonetics' Specification IID 455-0441 and incorporates two relay drivers and associated logic circuitry. This unit was subsequently purchased as Parko P/N 100362 against Autonetics' Specification IID 476-0053 for the Mission Sequencer as flight hardware on the Apollo program.

P/N 100370 - ISOLATED RELAY DRIVER - This unit was designed to cover a specific application requiring a 5.0-volt 100K input impedance solid state relay driver with complete isolation between the input circuit and the output circuit. It is factory preset to 5.0 VDC; however, any input voltage up to 100 VDC may be preset, or the unit may be used with an external trimmer. The unit is completely transistorized, utilizing silicon semiconductors, and is potted in a hermetically sealed metal enclosure.

P/N 100382 - VOLTAGE-TO-CURRENT CONVERTER - This solid state voltage-to-current converter was custom designed for Lear Siegler, Inc./Electronic Instrumentation Division. This unit was designed specifically as a precision high impedance voltage-to-current converter featuring 1000 megohms minimum isolation between signal input and output circuitry.

P/N 100471 - CDA-12 TRANSMITTER COMMAND MODULE - This solid state module was custom designed for Electronics

P/N 100820 – SOLID STATE DRIVER – This solid state relay was custom designed to North American Specification ME 301-0416-0001. resistive or inductive loads. It has two low level inputs and a solid state output.

P/N 100920 – RELAY DRIVER – This solid state relay driver was operates two relay drivers and associated logic circuitry. This Autonetics' Specification IID 476-0053 for the Mission Sequencer as flight hardware on the Apollo program.

P/N 100970 – ISOLATED RELAY DRIVER – This unit was designed to cover a specific application requiring a 5.0-volt 100K input impedance solid state relay driver with complete isolation preset to 5.0 VDC; however, any input voltage up to 100 VDC may be preset, or the unit may be used with an external trimmer. conductors, and is potted in a hermetically sealed metal encle-

signal input and output circuitry.

P/N 100471 (continued)

Development Corporation to control the application of power to a travelling wave tube transistor in a reconnaissance television system. The circuit delays operation of the power controlled relay for 90 seconds. It monitors helix trip current at ± 60 mA with a 250 millisecond delay, and it monitors the base temperature for a 165°F maximum. It also contains a solid state output of 30 mA and 2A relay contacts.

P/N 100472 - TRANSMITTER HIGH VOLTAGE REGULATOR - This solid state high voltage regulator was custom designed for Electronics Development Corporation to regulate a 5000 volt anode supply for an airborne travelling wave tube. The module phase controls a solid state SCR circuit in series with the primary of 115 VAC 400 Hz to 5000 VDC power supply. The output of the 5000 VDC supply is reduced through a 5 megohm resistor to the reference input and generates variable phase trigger pulses for the SCR circuitry.

## DESIGNS (continued)

Corporation to control the application of power to
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90 seconds. It monitors helix trip current at + 60 ma
a 165°F maximum. It also contains a solid state output
A and 2A relay contacts.

- TRANSMITTER HIGH VOLTAGE REGULATOR -

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of the 5000 VDC supply is reduced through a 5 megohm resis-
the reference input and generates variable phase trig pp
the SCR circuitry.

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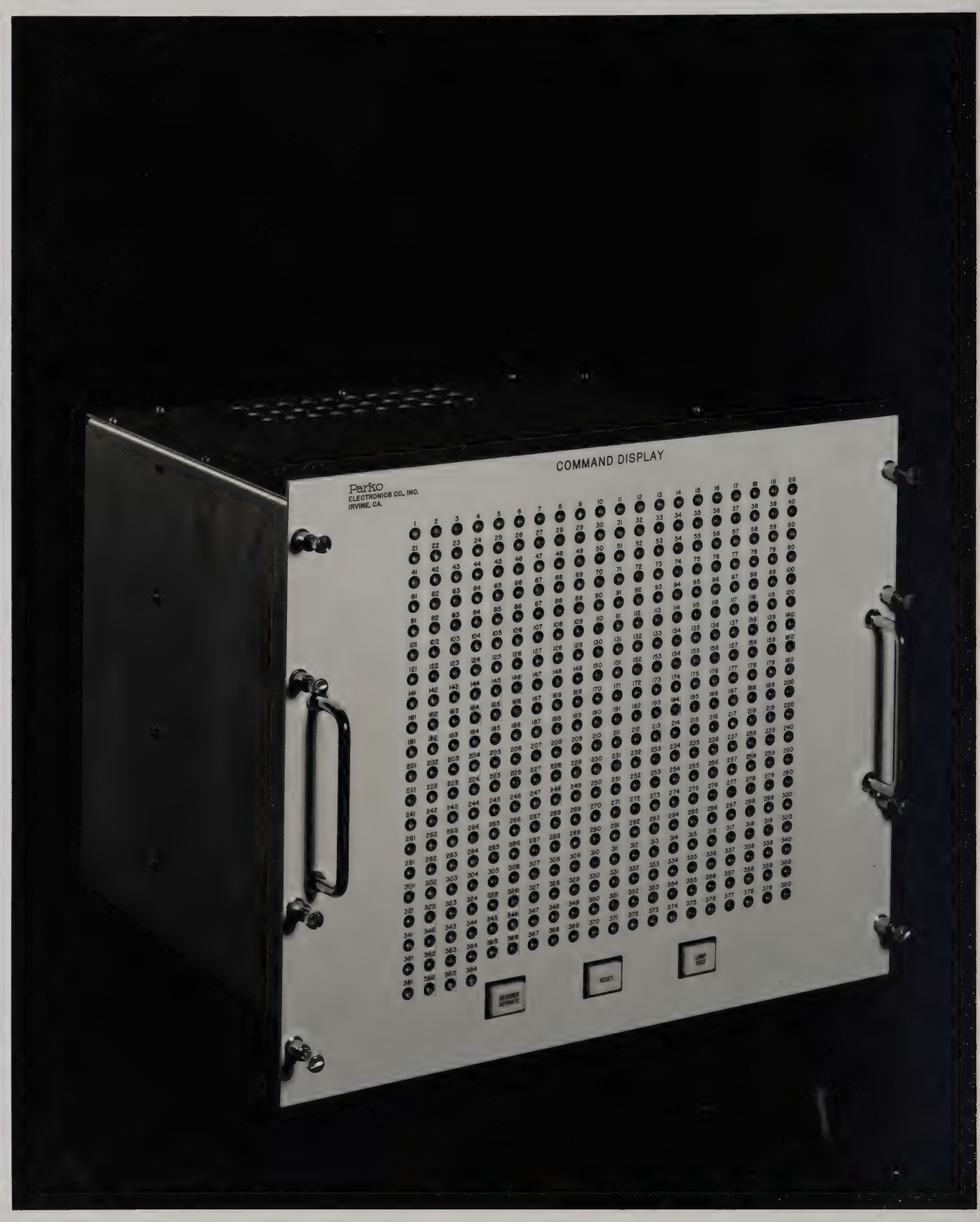
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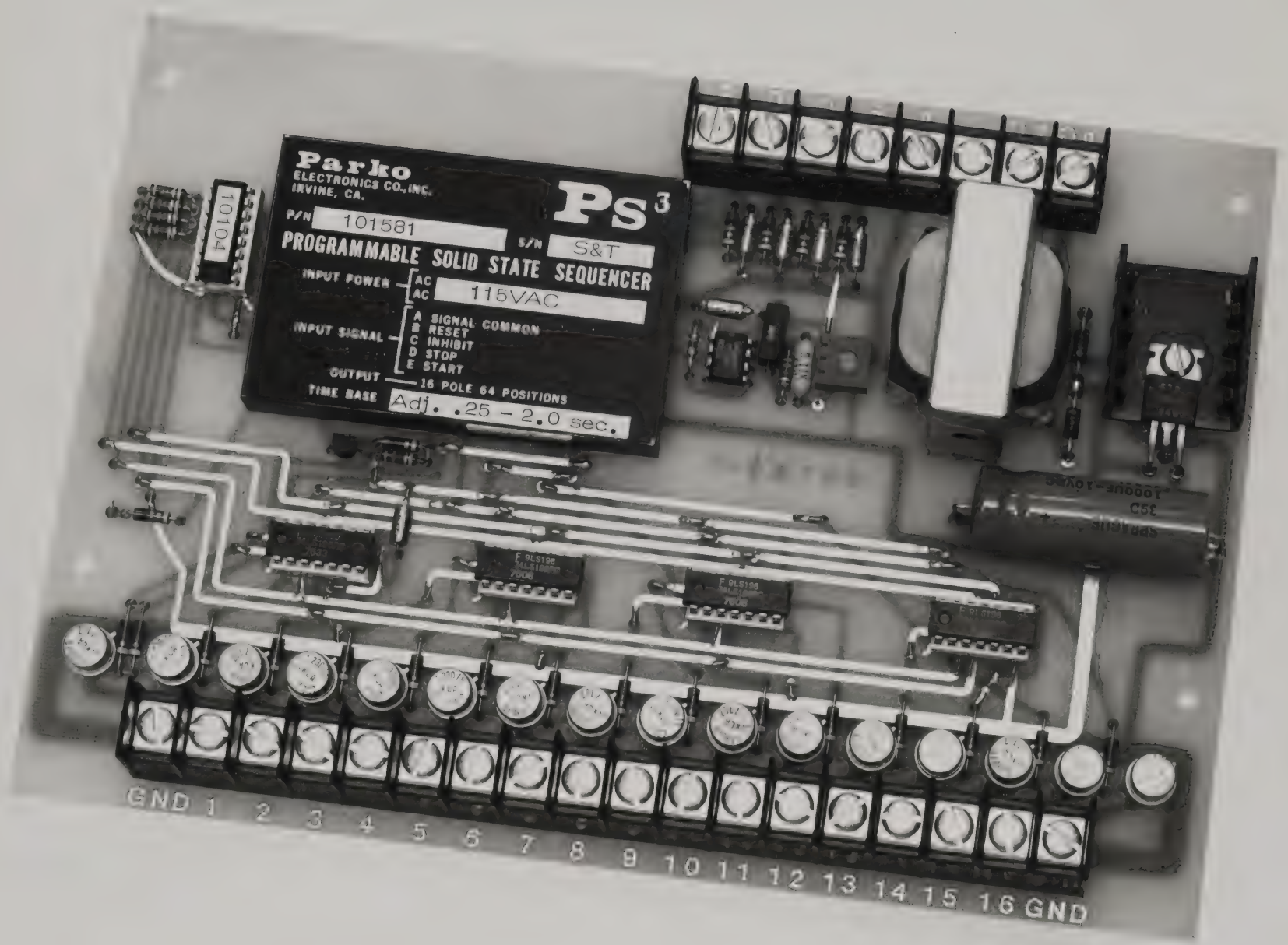
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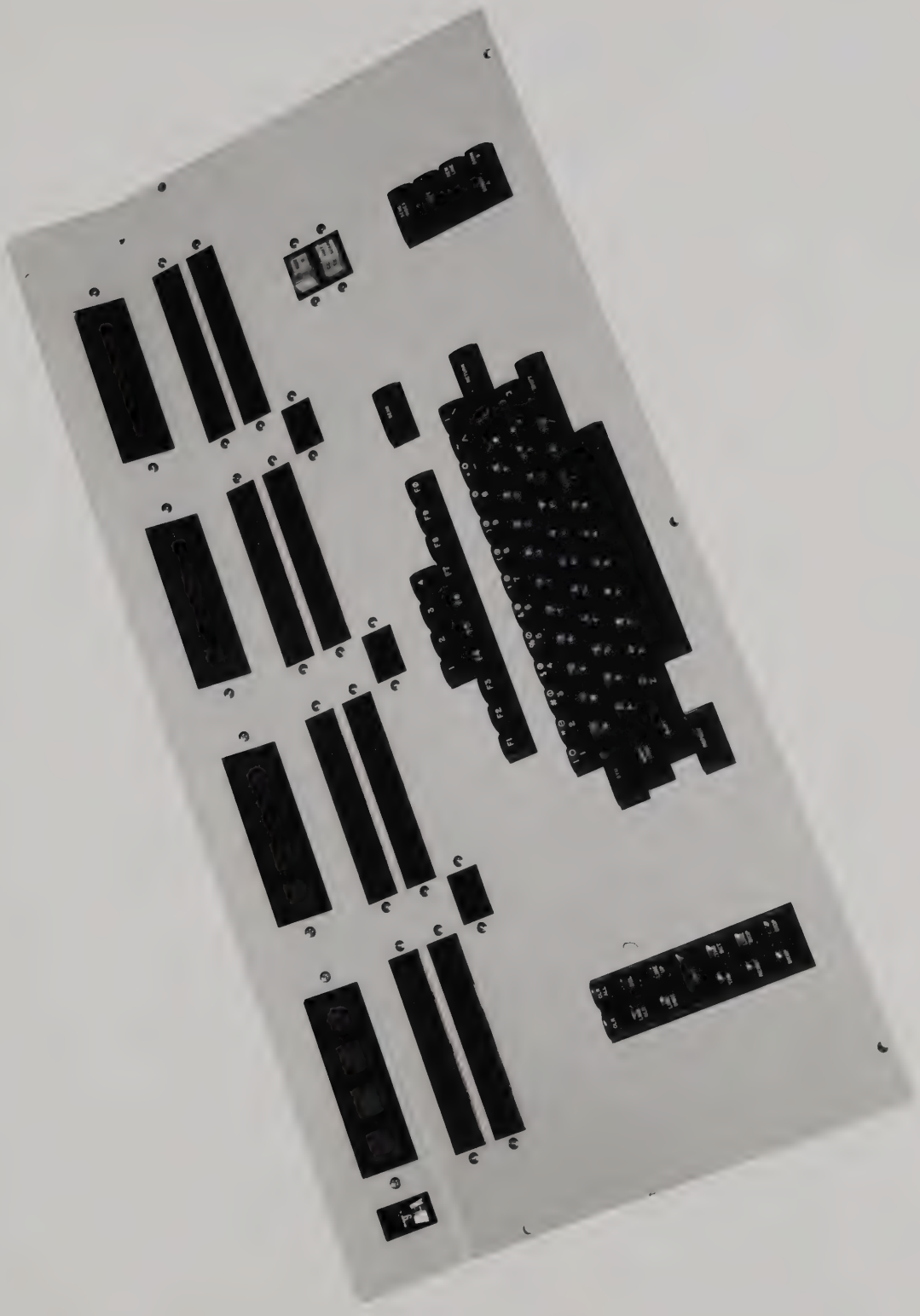

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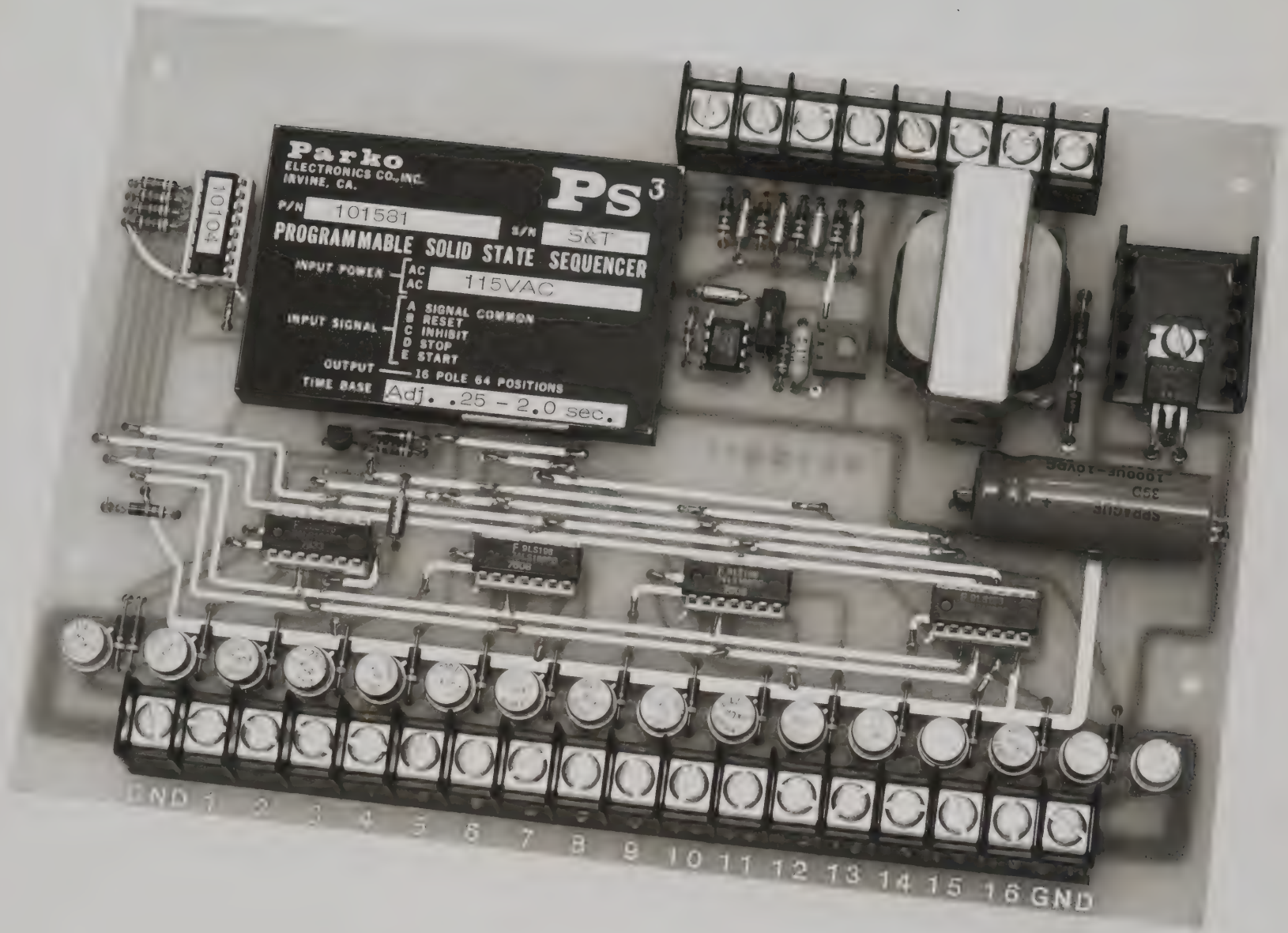
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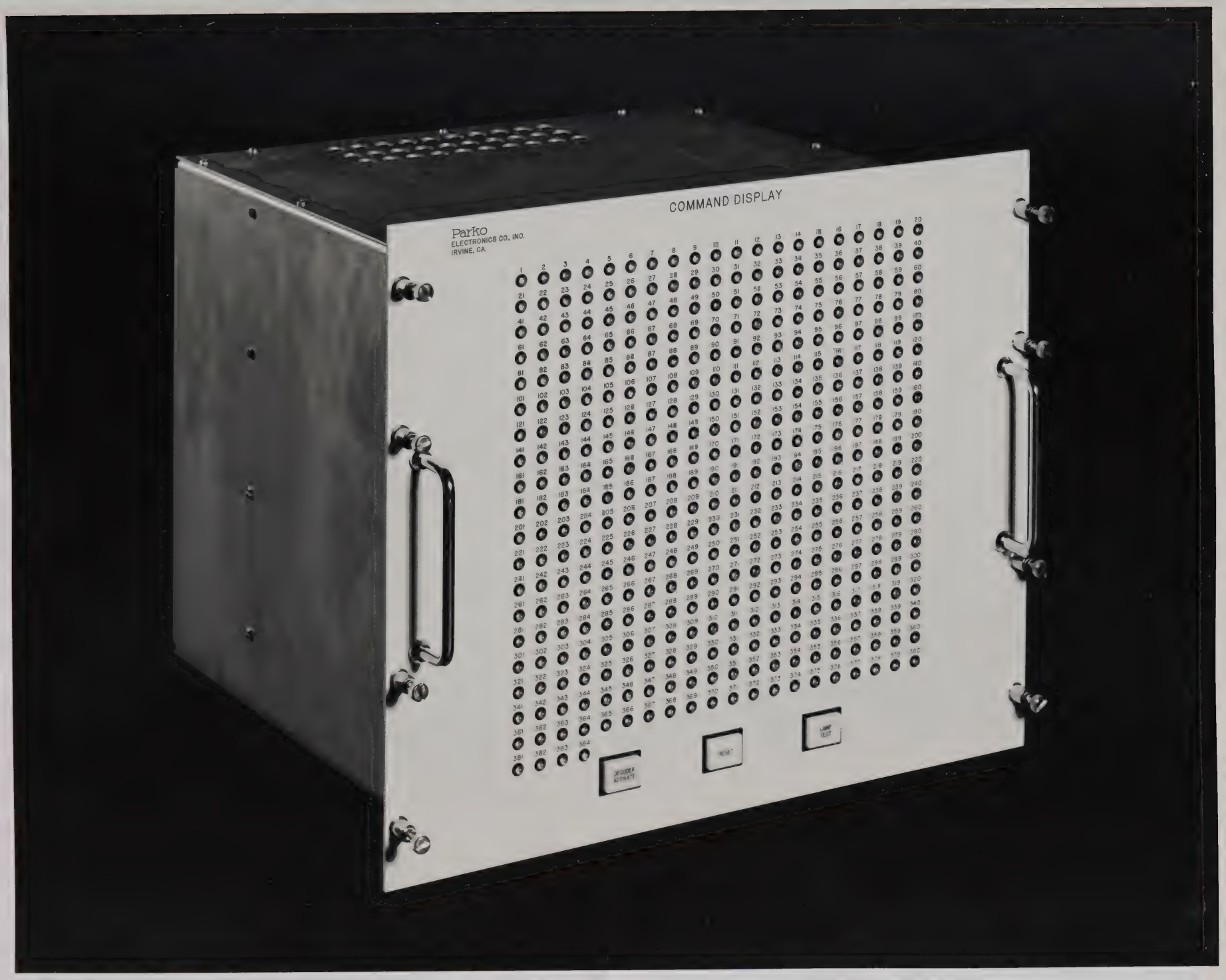
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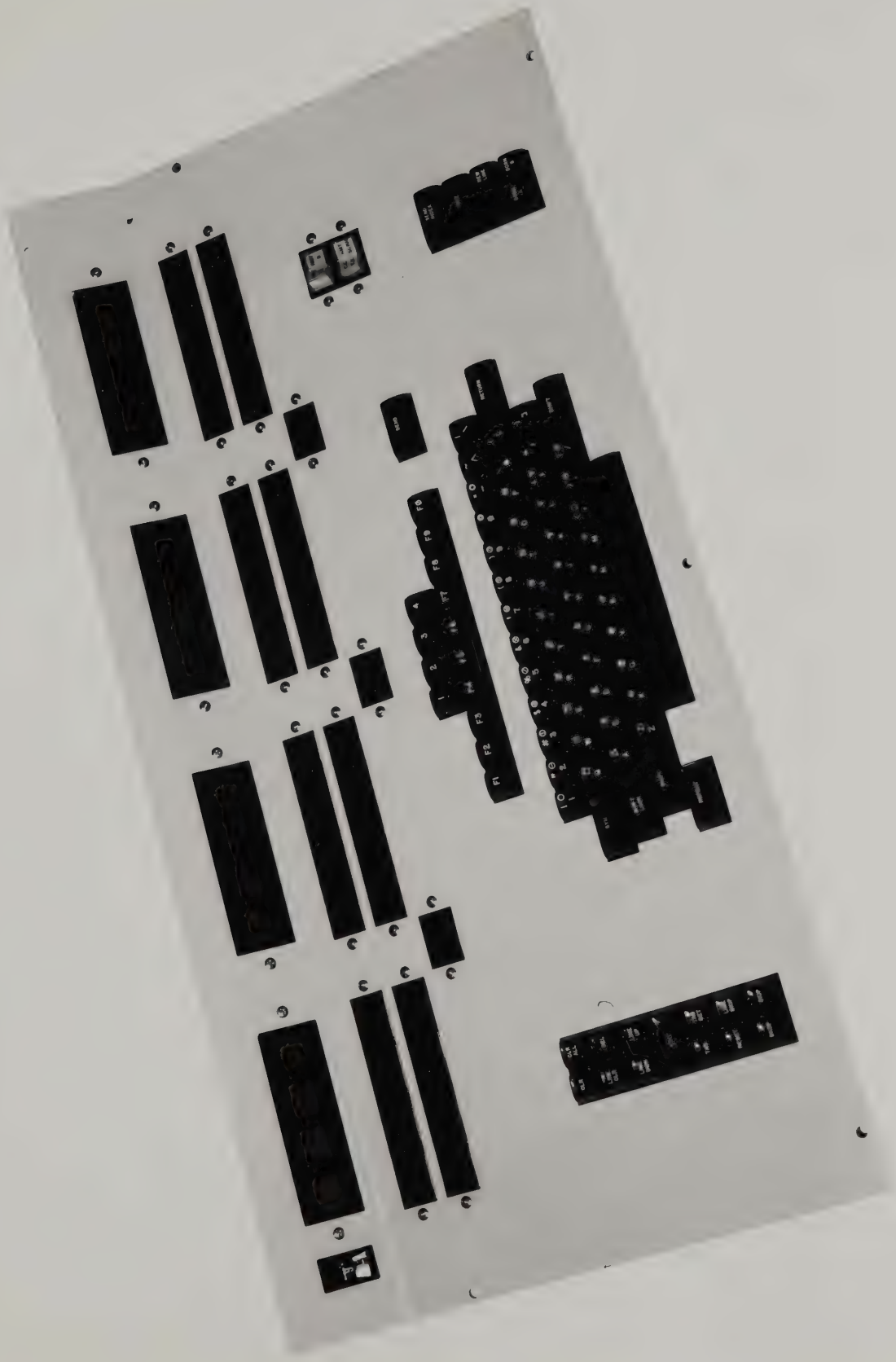

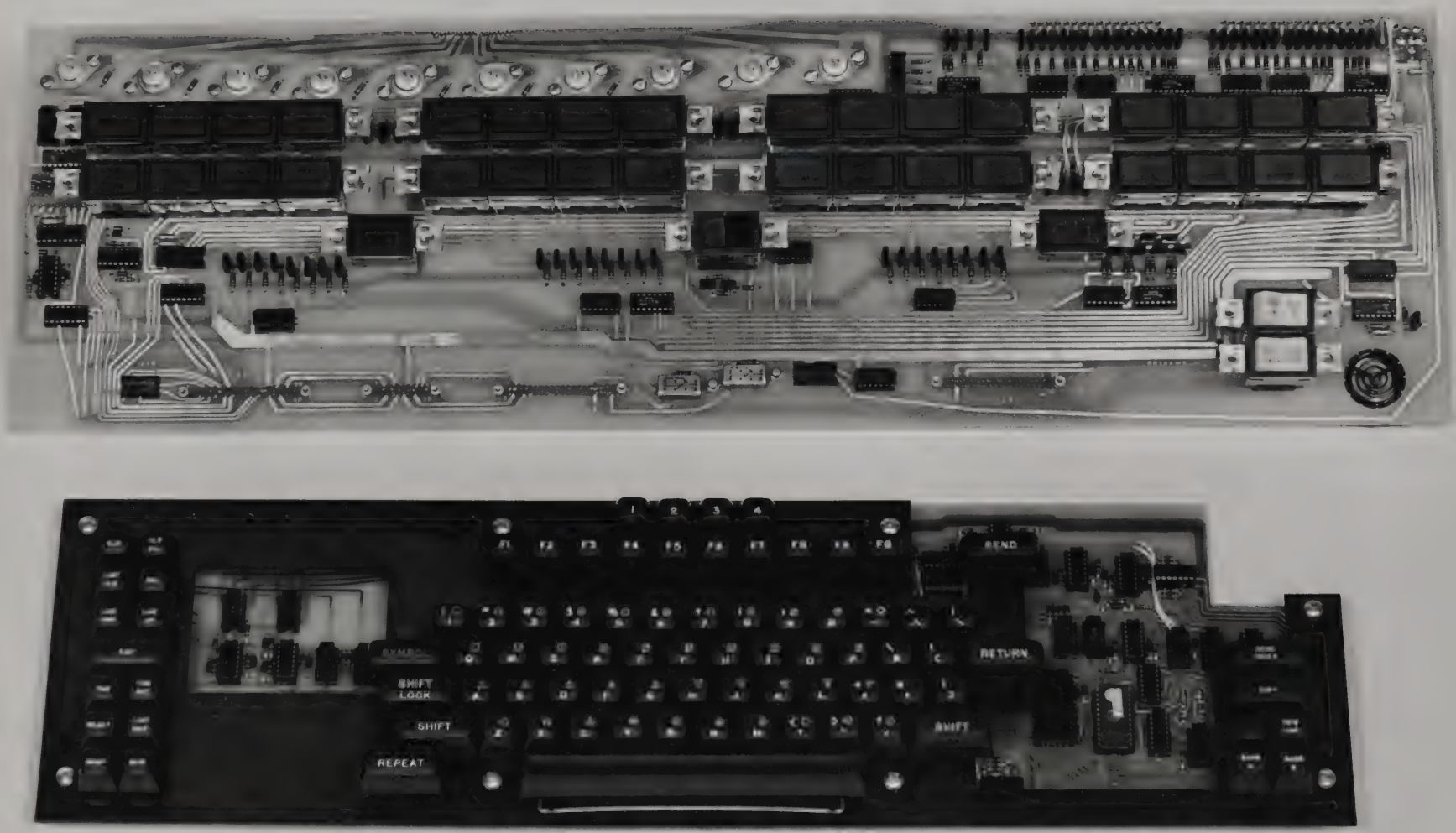
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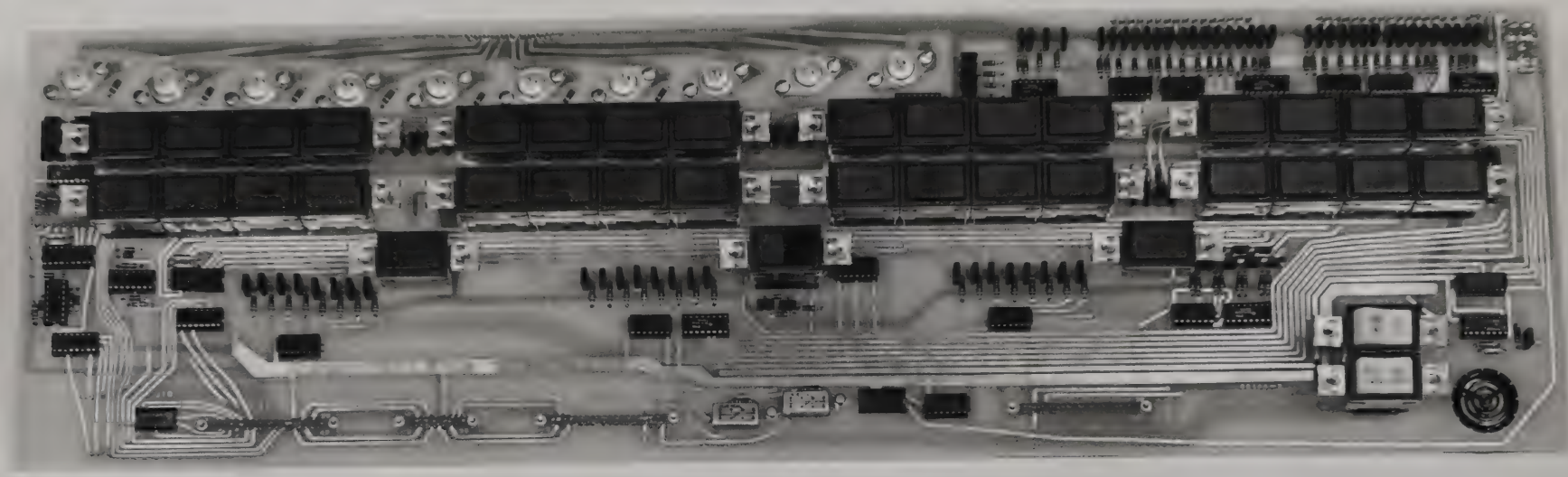

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'Click' By Rick
'CLICK' BY RICK
CRAFTSMANSHIP IN PHOTO-ILLUSTRATION
1322 Bell Avenue, Suite M
Tustin, California 92680
(714) 730-9113
Rick Dressler

# 'CLICK' BY RICK

CRAFTSMANSHIP IN PHOTO-ILLUSTRATION

July 11, 1983

Parko Electronics Company
16722 Milliken Avenue
Irvine, California 92714

Attention: Director of Marketing/Advertising

Dear sir:

We at 'Click' by Rick would like to hear from you the next time you are shopping for quality advertising photography. We are experienced in a number of fields including large product, food, hi-tech, architectural and catalog work. Our clientele includes Sears, J. C. Penney, Shearson American Express, Micro-Sci, and Modular Designs as well as numerous Ad agencies and local Corporate firms.

Please feel free to give us a call if you would like to arrange an appointment. We'd be well pleased to show you our book.

Most cordially,

Rick Dressler
'Click' by Rick

RD:ds

Enclosures

RECEIVED JUL 12 1983

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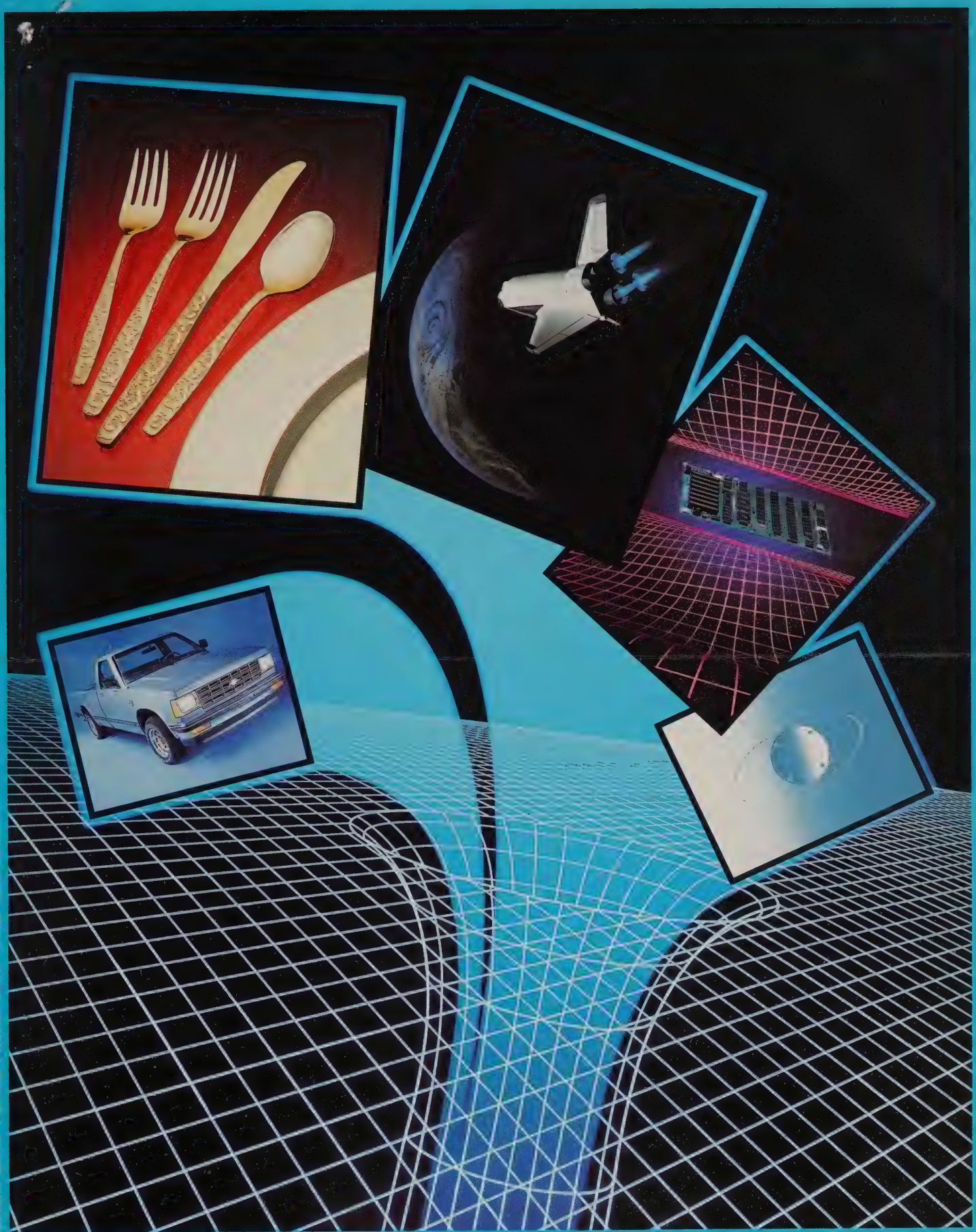

'Click' By Rick

1322 Bell Avenue, Suite M, Tustin, CA 92680 • (714) 730-9113

# 'CLICK' BY RICK

*"PEOPLE, PRODUCT, CATALOG & LARGE FORMAT COVE PHOTOGRAPHY"*

1322 Bell Avenue, Suite M, Tustin, CA 92680 714/730-9113

**Parko**

ELECTRONICS COMPANY, INC.

1540 SOUTH LYON • SANTA ANA • CALIFORNIA • 92705

714 547 0184

From: PARKO ELECTRONICS COMPANY, INC.
1540 South Lyon
Santa Ana, California 92705
Phone: 547-0184
Contact: Mrs. Gene Drake

November 4, 1966

FOR IMMEDIATE RELEASE

PARKO ELECTRONICS COMPANY, INC. MOVES TO LARGER FACILITY

Parko Electronics Company, Inc. is moving their research and development laboratory, manufacturing, and general office facilities to a new, larger building at 1540 South Lyon, Santa Ana, California. The November move was announced this week by Frank F. Parker, president of the Orange County firm, following installation of equipment and personnel at the new location.

Total floor area of the new Parko facility is 6,000 square feet, and includes general offices, design and drafting area, technical library, electronic engineering and quality control laboratories, and production areas, all of which are fully air-conditioned.

The six-year-old firm has enjoyed rapid growth. It was inaugurated in June, 1960, with two people. Today Parko employs fifteen people, with annual sales of $350,000. Parko Electronics is well known in the aerospace and electronics industries, specializing in the manufacture of solid state, hermetically sealed, high reliability circuits primarily for military use such as time delay relays; voltage, current and frequency sensors; phase-sensitive amplifiers, conventional amplifiers and detectors; and specialized custom-designed circuits for specific applications. Current projects include contracts with the Autonetics Division of North American Aviation, TRW, Inc., Douglas Aircraft Company, Inc., Defense Electronics Supply Center. Future plans include an extension of standard proprietary items and diversification into industrial electronic control equipment.

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# SA Firm Honored

Since its founding in 1960, Santa Ana's Parko Electronics Co., Inc. has had hardware aboard each Apollo space flight and recently was nominated as "Small Business Subcontractor of the Year."

Citing its contribution to the space missions, the firm was named by North American Rockwell's Space Div. and will compete with other firms being considered for national winner by the Small Business Administration.

The firm selected as winner will be named at Washington, D.C. during Small Business Week, May 14 through 20.

The adage that necessity is the mother of invention holds true in the case of Frank Parker, founder and president of Parko.

A hardhitting, practical sort of person, Parker launched his business after being asked if he could design and develop a miniature time delay module to be used for the emergency oxygen supply system aboard the Mercury space capsule.

Parker, who at the time was employed by Lear Siegler, started working on the project at home and since that time has developed new products which place his company's sales well over $500,000 annually.

He is assisted throughout all of his business dealings by his wife, "B.J." who serves as vice president, secretary and controller of the company. Prior to their marriage she was a stewardess for TWA.

In an interview with the Register, Parker said that 13 pairs of time delay modules and multi-position sequencers are aboard the Apollo 16.

Their uses range from the timer which fires the escape rocket used to jettison the astronauts in the event of an unsuccessful launch, to the one which triggers the landing sequence mosphere.

Parker attributes much of his firm's success to complete traceability and documentation of all parts and testing on high reliability aerospace products.

Though a time delay module developed by Parko measures about one inch square and weighs less than an ounce, Parker said that the records kept on its development, testing and production are enough to fill a standard four-drawer filing cabinet.

The firm has already shipped hardware which is scheduled for use aboard the Sky Lab due to be launched during the summer of 1973.

Parker is also working in the fields of industry and medicine.

With time delay modules available in sequences from 100 miliseconds to 1,500 seconds, Parker said one of his firm's recent jobs was to develop the timing sequence on guns for a manufacturer of shooting galleries.

A skiier and flyer, Parker pilots his Cherokee six-passenger plane on business trips. These two interests also have lead to research on the development of a digital timer for skiing events and digital cockpit timer to measure time and speed factors from point to point during instrument flying.

The privately held firm employes about 25 persons at its 1540 S. Lyon St. facility.

ate Taiwan and no force on earth can stop us from doing so," signed, Chiao Kuan-hua leader of Red China's delegation to the United Nations.

The Nixon Administration's part in kicking the Taiwan delegation out of the United Nations, and seating Red China and Nixon's trip to Peking, have caused great consternation in Taiwan, Chang Kai Shek's domain.

It is quite evident that the customary communist's liberation of Taiwan is well under way. Correspondent, Johni Smith of Kuala Lumpur Malaysia in an article to the West Plains Daily Quill, West Plains, Mo., Mar. 28, writes: "Today property values have dropped over 40 per cent, construction is dwindling and in the entire week she was in Taiwan nary a nail was driven in the many new buildings under construction in Taipei. The new 12-story wing of the Grand Hotel, under construction, has been idle for weeks. Fear is running rampant among the people who are afraid they may not have a chance to leave Formosa before it is too late. They are worried and scared. They ask, what will happen to Taiwan and its people? The world recognizing Taiwan as part of China, will they be starved out, with diplomatic relations cut off? British embassy has closed after 100 years on the island, and other embassies are expected to close. They ask who will help them if attacked? Will Russia, will the U.S. as Nixon has stated? What will prevent them from being overrun peacefully by the hordes from the mainland of China. What is their future?"

Nixon should make one more grand-

our toy rockets. . ." Americans traditionally acknowledge that there are ideas more important than ourselves, more important than the material. To eliminate recitation of spiritual passages is to deny this humility on the part of the U.S.

In light of recent American history, I can't help thinking that this denial is the real desire behind those sudden clamorings for "more religious tolerance."

Mr. & Mrs. C.D. Eakman
Garden Grove

* * *

## *Thanks Pilot*

A Saturday afternoon family drive nearly turned into a terrifying experience when a Navy jetfighter nearly exploded right above us. I can only give grateful thanks to Maj. Edward Townley for piloting the nosediving aircraft past the people below him into the safety (not for him) of the ocean.

Although it nearly cost him his own life, he managed to avert a major disaster, for which I think Maj. Townley should be commended. (He could have simply pointed the airplane toward the ocean and ejected safely over a field, hoping no one would be hurt.) Instead, he may be held responsible for destroying the airplane. (Was it his fault?)

The Register may give credit to "luck" for saving Maj. Townley from drowning, for luck was all he had. I for one am glad Maj. Townley was flying that plane and believe he should be given credit for saving many lives, perhaps mine. Why didn't The Register say this?

V. J. Osborne
Placentia

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Nixon should make one more grand- and play. Kick the United Nations out

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V. J. Osborne
Placentia

"Didn't You Ever Hear of the Pill?"

The Tustin News - Thursday, April 13, 1972

# Parko Electronics Receives Award Nomination

In recognition of contributions to SpaceLab-Apollo missions, nomination of Parko Electronics, Inc., Santa Ana, as "Small Business Subcontractor of the Year" in the far Western region was announced this week by the Small Business Administration.

Parko, which received the same award last year, will compete with companies in eight other regions for national honors. North American Rockwell's Space Division was the prime contractor nominating Parko this year, while Autonetics nominated the local firm last year, Tustinite Frank F. Parker, company president said.

SBA designed the awards as a means for major government prime contractors to recognize superior performance of subcontractors. National winner will be announced in Washington, D.C. during Small Business Week, May 14-20.

Parko manufactured high-reliability communications amplifiers for the current SpaceLab-Apollo missions. Its timing modules have been in 26 Apollo capsules, and its multi-position sequencers are used in blast-off, docking and landing.

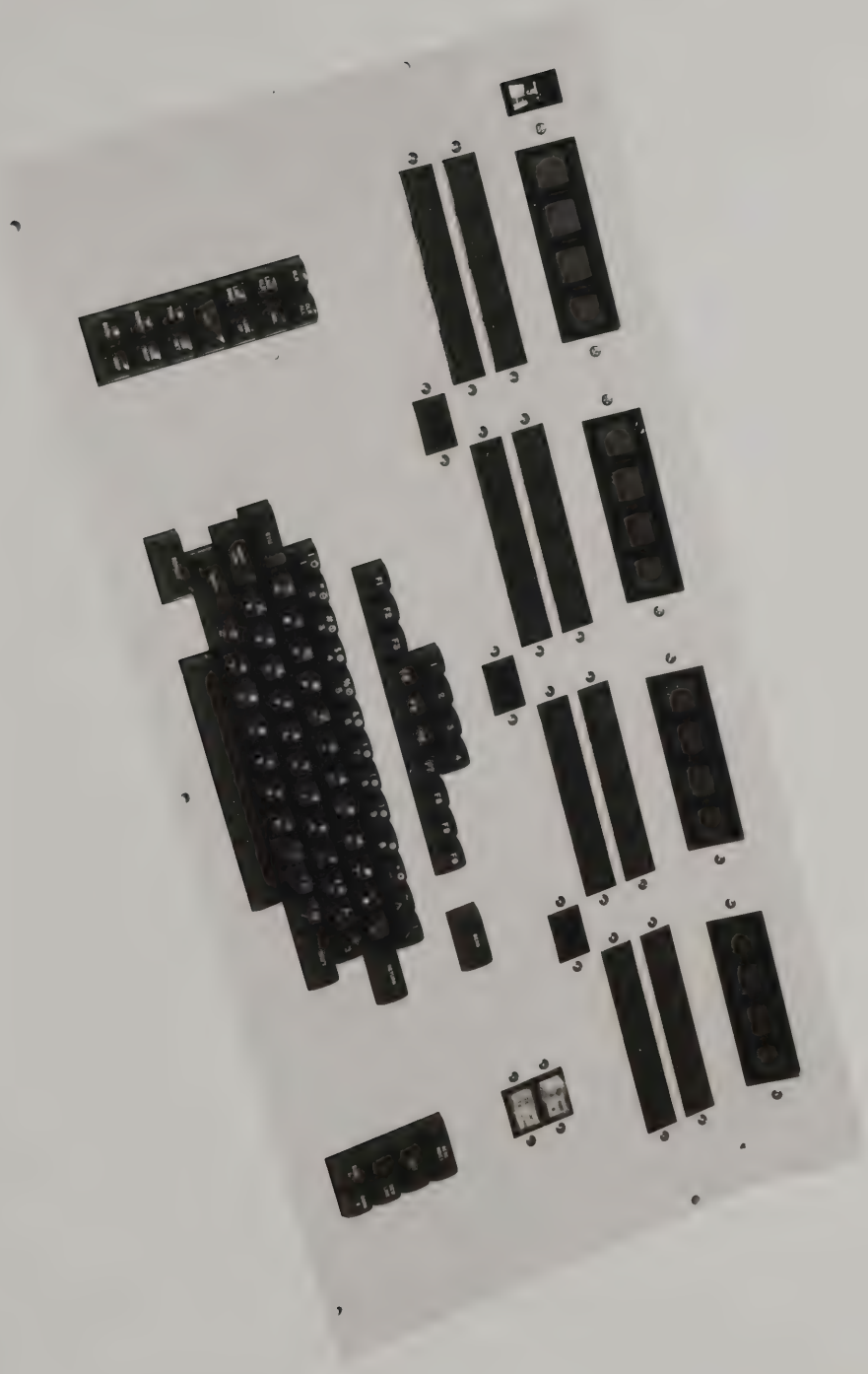
The company, which was founded in Tustin in 1960, made its first product for the Mercury space missions and has specialized in solid state packaged circuitry designed and manufactured for the aerospace industry.

Participation in other space programs includes Midas, OGO, and Vela Hotel, and parts in ground support programs for Apollo, Mercury, N7D, Polaris, Reins and SINS. Parko products also were used in aircraft programs for the F4C, F103, F-104, and Saber Liner.

The Parko facility, 1540 South Lyon, includes research and development laboratories, manufacturing plant, and general offices.

e Red Hill Nation of the
ncake breakfast are present-
by Dennis Kegel, chief of
kfast will be held from 8 a.m.
Tustin High School cafeteria.
and may be purchased at the
awarded also at the breakfast.
Tustin YMCA Indian Guide

—NEWS Photo



McNALLY PHOTOGRAPHY
1541 PALLIA LANE
TUSTIN, CALIFORNIA

500

U. S. SMALL BUSINESS ADMINISTRATION
PACIFIC COASTAL AREA – REGION IX
450 GOLDEN GATE AVENUE, BOX 36044
SAN FRANCISCO, CALIFORNIA 94102

April 4, 1972

Parko Electronics Co., Inc.
1540 So. Lyon Street
Santa Ana, California 92705

Gentlemen:

Congratulations! Your firm has been selected as one of the outstanding small business manufacturers in our region. Your superior performance as a subcontractor has been recognized by a major Government prime contractor who recommended that your firm be considered as the "Small Business Subcontractor of the Year".

The final selection of the "Subcontractor of the Year" will be made by a panel of judges composed of industry and Government procurement officials in Washington, D. C., during Small Business Week, May 14-20, 1972. A public announcement will be made at that time.

The enclosed certificate is this office's acknowledgement of your achievement as a subcontractor and your contribution to the defense effort.

Sincerely,

Gilbert Montano
Gilbert Montano
Regional Director

Enclosure

U. S. GOVERNMENT
SMALL BUSINESS ADMINISTRATION
PACIFIC COASTAL AREA – REGION IX
450 GOLDEN GATE AVENUE, BOX 36044
SAN FRANCISCO, CALIFORNIA 94102

March 29, 1971

Mr. Frank Parker, President
Parko Electronics Co., Inc.
1540 So. Lyon
Santa Ana, California 92705

Dear Mr. Parker:

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Donald McLarnan

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Regional Director

Enclosure

U. S. SMALL BUSINESS ADMINISTRATION
PACIFIC COASTAL AREA – REGION IX
450 GOLDEN GATE AVENUE, BOX 36044
SAN FRANCISCO, CALIFORNIA 94102

RECEIVED
JUN 05 1972

June 1, 1972

Parko Electronics Co., Inc.
1540 So. Lyon Street
Santa Ana, California 92705

Gentlemen:

It is my pleasure to advise you of the National and Region IX winners of the honors as "Subcontractor of the Year" 1972.

NATIONAL WINNER

Microwave Development Laboratories
Needham Heights, Massachusetts

SBA REGION IX WINNER

Elec-Trol, Inc.
Saugus, California

As you know, the judging, in both cases, was performed by a Government and Industry panel, exclusive of SBA.

The award to the National winner was presented in Washington, D. C., on May 16, 1972, during "Small Business Week". The plaque for our Region IX winner was delivered to me for presentation in a suitable ceremoney at a later date.

I greatly appreciate your cooperation in our "Subcontractor of the Year" program. The judges had a difficult task due to the high caliber of the firms nominated. I regret each of the nominating companies could not have submitted a winner and that each of the nominated firms could not have been a winner.

Sincerely,

Gilbert Montano

Gilbert Montano
Regional Director

4-13-72

Released to:

Austin News

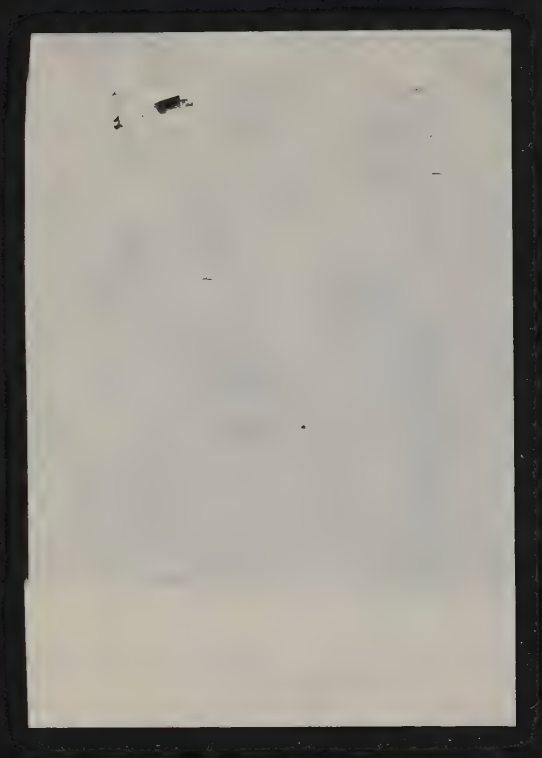
Santa Ana Register

Los Angeles Times

Electronic News

WEMA Bulletin

Wall St. Journal



BOB/KATHLEEN LANDER
Public Relations
10002 DEERHAVEN DRIVE
SANTA ANA, CALIFORNIA 92705
(714) 544-1561

FOR IMMEDIATE RELEASE

for: Parko Electronics

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Parko also has participated in other space programs, including Midas, OGO and Vela Hotel, in aircraft programs for Apollo, Mercury, N7D, Polaris, Reins and SINS.

The Parko facility is at 1540 South Lyon, Santa Ana, Calif.

#

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(more)

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Parker credits growth and recognition of the company to "employing the best available personnel and designing and manufacturing our products to the highest possible standards."

"Our rejection ratio is considerably less than one per cent," he added, "because the philosophy of 'zero defects' is the basis of our operation at Parko, not just a slogan."

The Parko facility, 1540 South Lyon, includes research and development laboratories, manufacturing plant, and general offices.

#

U. S. GOVERNMENT
SMALL BUSINESS ADMINISTRATION
PACIFIC COASTAL AREA – REGION IX
450 GOLDEN GATE AVENUE, BOX 36044
SAN FRANCISCO, CALIFORNIA 94102

April 27, 1971

Mr. Frank Parker, President
Parko Electronics Co., Inc.
1540 South Lyon
Santa Ana, California 92705

Dear Mr. Parker:

By this time you will have received your certificate for having been nominated as a candidate for "Subcontractor of the Year".

It is my pleasure to announce that the National winner is:

Optic Electronic Corporation
Dallas, Texas

Our SBA Region IX winner, against whom you competed, is:

Optical Coating Laboratory, Inc.
Santa Rosa, California

The judging, in both cases, was performed by a panel consisting of Government and Industry representatives, exclusive of SBA.

While I regret that you were not selected as a winner, you are to be complimented for having been nominated by a major prime contractor as their outstanding subcontractor. This reflects highly the outstanding capabilities you have demonstrated.

May I wish you every success in the future. Keep up the good work and earn the nomination again next year.

Sincerely,

Donald McLarnan

Donald McLarnan
Regional Director

U.S. GOVERNMENT
SMALL BUSINESS ADMINISTRATION
WASHINGTON, D.C. 20416

OFFICE OF THE ADMINISTRATOR

FEB 2 2 1971

Mr. Small Businessman:

The Fourth Annual Subcontracting Conference will be held at the Washington Hilton Hotel in Washington, D. C., on May 18, 1971.

Members of Government and industry will discuss the problems and techniques of Government subcontracting. Emphasis will be placed on the prime contractor's responsibility to the small business community.

The feature of the conference will be the presentation of an award to the "Small Business Subcontractor of the Year." As you perhaps already know, this selection is made by a panel of Government and industry judges who review nominations submitted by major prime contractors participating in the Voluntary Subcontracting Program.

We are seeking to have one of the leading figures of the Government as the luncheon speaker.

A cordial invitation is extended to you to attend the conference. If you wish to attend, please return the enclosed registration form to this office by May 7, 1971.

I am looking forward to seeing you at the conference.

Sincerely,

Marshall J. Parker
Associate Administrator
Procurement and Management Assistance

Enclosure

The United States of America

SMALL BUSINESS ADMINISTRATION

PRESENTS THIS

# CERTIFICATE

TO

## Parko Electronics Co., Inc.

*In recognition for the nomination of national small subcontractor of the year, and for outstanding contribution and service to the nation's civilian and defense needs.*

D. M. Lamar

Regional Director

March 29, 1971

Date

SBA FORM 948 4 70)

TOKO

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PONTO

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TUSTIN, CALIFORNIA
BUS. 544-6277 RES. 544-5643

101

BABCOCK RELAYS · PARKO ELECTRONICS
BABCOCK RELAYS
MODEL BR 30
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One Inch Cube
All Welded Construction
28 Volt 4PDT 10 Amp
30G Vibration 100G Shock
To MIL R 6106
FEATURES
Magnetically Biased
Integral Silver Cadmium Oxide Contacts
Vibration Dampening Springs
Ceramic Contact Carrier
Arc Barriers
Moisture Proof Gasketing
HI-REL TIMERS
for the APOLLO

ORLANDO PRODUCTIONS
Official Photographer

631 N. California Street
Burbank, Calif. – TH. 6-0629

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ELECTRONICS COMPANY INC.

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Editorial Photographer

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ELECTRONICS COMPANY INC.

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